

Date: Thu, 21 Jul 94 01:09:06 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #820
To: Info-Hams

Info-Hams Digest Thu, 21 Jul 94 Volume 94 : Issue 820

Today's Topics:

- *finally it arrived* (but why no plus?) (3 msgs)
- Bicycle generates noise on 20 meters
- CW on CB
- feed-forward amplifiers
- Jupiter decametric emission info
- Jupiter emission/impact predictions
- NASA 25th Moon Landing Special Station
- No code tech./CB/not shedding a tear
- QST on News Stands? (2 msgs)
- Scanner Cellular Mod
- STOP THE INSANITY! (was: FCC Delays)
- Tel.nbr. SSB-electronics Germany ??

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 20 Jul 94 11:10:05 -0500
From: ihnp4.ucsd.edu!usc!elroy.jpl.nasa.gov!lll-winken.llnl.gov!noc.near.net!
news.tufts.edu!news.hnrc.tufts.edu!jerry@network.ucsd.edu
Subject: *finally it arrived* (but why no plus?)
To: info-hams@ucsd.edu

In article <30j9qr\$ttu@watnews1.watson.ibm.com>, vinod@watson.ibm.com (Vinod Narayanan) writes:

> |> the idea..) I thought I saw someone saying that the new licenses are
> |> already coming out with "Tech Plus", maybe I was wrong. But if it hasn't
> |> already started, it's soon to come...

>
> I know one person who has gotten a licence which says "Tech Plus", about
> a month back. I have asked the VEC to send in my 610 for the 5wpm test,
> (since I just got the no-code tech at the first test), I will know
> in about 14 weeks whether they are going to issue me a new "tech plus"
> licence.
>

The new QST said something about receiving a license with the w/HF designation if 1B was passed after June 6, or thereabouts. On June 13, the ARRL sent me a post card asking for a copy of my Technician class license so that they could attach it to a May 21 610 that would have made me Technician w/HF.

Date: Wed, 20 Jul 1994 07:29:16 -0500
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!europa.eng.gtefsd.com!ceylon!news2.near.net!das-news.harvard.edu!spdcc!merk!harvee.billerica.ma.us!esj@network.ucsd.edu
Subject: *finally it arrived* (but why no plus?)
To: info-hams@ucsd.edu

In <30bqcb\$lot@nntp.club.cc.cmu.edu>, Jeffrey Hutzelman writes:
> Nope. Your ticket won't look any different. What you need to do is
> hang on to your copy of the CSCE (Certificate of Successful Completion of
> Examination) which shows that you completed the code test. That
> form is what proves the difference between a no-code tech license
> and your tech+.

since I don't have a csce, I guess my 1980 novice ticket will have to suffice... In reality I'm a tech+g. I took my tech exam at the second to last fcc given exam session in boston (tech ticket dated 1981).

--- eric

--
HOME: esj@harvee.billerica.ma.us HAM ka1eec
WORK: esj@temerity.polaroid.com 617.386.4687
source of the public's fear of the unknown since 1956

Date: 20 Jul 1994 16:39:31 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!europa.eng.gtefsd.com!ceylon!news2.near.net!info-server.bbn.com!news!levin@network.ucsd.edu
Subject: *finally it arrived* (but why no plus?)
To: info-hams@ucsd.edu

In article <H.eg.RgsLBmftjEA@harvee.billerica.ma.us> esj@harvee.billerica.ma.us (Eric S Johansson) writes:

In <30bqcb\$lot@nntp.club.cc.cmu.edu>, Jeffrey Hutzelman writes:

>Nope. Your ticket won't look any different. What you need to do is

since I don't have a csce, I guess my 1980 novice ticket will have to suffice... In reality I'm a tech+g. I took my tech exam at the second to last fcc given exam session in boston (tech ticket dated 1981).

In your case, Eric, it may merely be that your ticket got through the system before they started adding "plus" to tech plus licenses. Or maybe they're not going back to check every renewal that comes in to see whether it should be changed from tech to tech plus.

I wouldn't worry. In fact, you could upgrade and forget the whole problem :-)

/JBL

=

Nets: levin@bbn.com |
pots: (617)873-3463 |
KD10N (@KB4N.NH.USA) |

"I gotta go."
-- I. Shoales

Date: Wed, 20 Jul 1994 13:22:49 GMT
From: ihnp4.ucsd.edu!swrinde!emory!cherry.atlanta.com!nanovx!kd4dts!
jcw@network.ucsd.edu
Subject: Bicycle generates noise on 20 meters
To: info-hams@ucsd.edu

lfloyd@netcom.com (Larry Floyd) writes:

Seems like you could scratch the paint off a small area of the front and rear forks, attach a small berillium copper wiper to the clean area, and form it so that it would rub against the rim. It might be possible to do this close to the hub, instead. As for grounding, you could do like to older cars used to, and attach a ground strap that drags. If I were trying this, the first place I'd look to attach it would be near the pedal hub. Of course, you'll want to make sure it can't flip up into the gear chain and land you on your arse.

>Wayne_Estes (Wayne_Estes@csg.mot.com) wrote:

><snip>

>: 1. The tires create static charges while rolling on the pavement.

>: 2. The hubs create static charges as metal parts rub against each other.

><snip>

>: Does anyone out there in internet-land have any ideas as to the cause and

>: possible cures to this problem?

--

John C. Wren (kd4dts) | "The UNIX operating system has a command, NICE,
jcw@kd4dts.atl.ga.us | which allows a user to voluntarily reduce the
..!emory!wa4mei!kd4dts!jcw | priority of his process, in order to be nice to

Date: 20 Jul 94 11:50:40 -0500

From: europa.eng.gtefsd.com!ulowell!woods.uml.edu!martinja@uunet.uu.net

Subject: CW on CB

To: info-hams@ucsd.edu

In article <9407201503.AA06088@metro.mccneb.edu.mccneb.edu>, pmarsh@metro.mccneb.EDU (Paul Marsh) writes:

> I haven't seen any followup on teaching CW on CB, so --

>

> FCC 95.627(c) seems pretty clear -- Non-voice emission is limited to
> selective calling or tone-operated squelch tones to establish or continue
> voice communications.

You won't catch me teaching cw on CB. [Head bent over in shame]..however, where do you think I learned it? Yeah, it's the truth. From 1969 to 1972 I was doing mcw on CB. If anyone ever copied, "DO YOU COPY THIS STATION?" on cw on the CB band (Ch 22A) during this time, that was me.

I just want to say thanks to Chris in Ontario who helped and hopefully learned at the same time. We had some pretty good cw QSOs then. Wonder if Chris is a ham now too?

I didn't condone any type of illegal activity then nor do I condone it now. I did it then and I don't do it now....heck I have all amateur privileges now anyway and have been a ham since 1981. Time flies when you're having fun. For a bullfrog, time's fun when you're having flies.

To those who will jump on me for being honest and stating the above...stick it in your ear. Nothing I can do about it now. If your time machine works you can lend it to all of us and we will gladly fix our errs of the past. Like my ex-wife and the time Ronny and I....uh....oh....sorry.

Just having fun cruizin' the info highway.....

73 de WK1V

-jim-

Date: 20 JUL 94 11:43:19
From: pa.dec.com!nntpd.lkg.dec.com!minews.mro.dec.com!est.enet.dec.com!
randolph@decwrl.dec.com
Subject: feed-forward amplifiers
To: info-hams@ucsd.edu

The July "RF Design" has an article on feed forward amplifiers. The basic idea is to tap off some of the input to the amp, delay it 180 degrees in phase, and combine this with some of the output of the amp. This gives you a signal composed of only the error added by the amp. Now you amplify this, phase it 180 degrees again, and combine it back into the power amp's output, to cancel out the error and get a nice, clean, IMD-free output.

Comments? Is this technique used in amateur equipment at all?

-Tom R. randolph@est.enet.dec.com

Date: Wed, 20 Jul 94 16:20:08 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!europa.eng.gtefsd.com!
newsxfer.itd.umich.edu!jobone!lynx.unm.edu!Mr-Hyde.aoc.nrao.edu!
pharden@network.ucsd.edu
Subject: Jupiter decametric emission info
To: info-hams@ucsd.edu

Here is some basic information regarding Jovian decametric emissions to help answer some of the questions thus far raised on the net.

1. Jupiter has a strong magnetic field consisting of three lobes labeled A,B and C (A the strongest). Decametric emissions are produced by electrons escaping this magnetic field, which depart in a very narrow beam. This resulting decametric emission is heard on the earth when these magnetic fields "sweep" the earth and are referred to as an A,B or C storm. Thus, one must use the prediction tables available from several sources when enhanced activity is most probable. Also, moon Io exerts a strong influence on these emissions when the geometry of Jupiter-Earth-Io are in certain configurations. These are called Io-A, Io-B and Io-C events. Again, the times of enhanced activity caused by these Io events are found on the prediction charts.
2. The dominant emission from Jupiter are L-bursts, which usually arrive in bunches over several minutes called storms. Right now, Jupiter is very quiet and it is not unusual for several rotations to go by with NO activity. And when activity does occur, it is a short duration event (a few minutes of bursts out of hours!).
3. Very few of the bursts, pops and cracks heard above the MUF in the

evening can be attributed to Jupiter. From #2 above, it is stressed that Jovian decametric activity right now is very infrequent.

4. It is impossible to isolate the origin of a signal with a single antenna. The best way to identify Jupiter is with listening practice, after many evenings, to learn what the L-bursts sound like. The professional arrays monitoring Jupiter are huge dipole arrays with very narrow beam widths (2-3 degrees) and very high gains. Also, an array of antennas can measure the phase delay of an incoming signal as received by each antenna. If the signal comes from space, it will strike each antenna about the same time; if it comes from earth, the signal will slide across the antennas one-at-a-time. Thus, only coherent signals (those arrive about the same time) are processed as coming from space. With a single antenna, even a directional high-gain yagi, it is still impossible to determine the source of a received signal ... especially a burst of noise.
5. The Japanese reported a 10-fold increase in radio emissions from Jupiter. This statement was taken a bit out of context and needs some clarification. The Japanese detected strong L-bursts for about 10 minutes of duration around 0700 UTC, about 30 minutes prior to the G fragment impact on 18JUL. It is tentatively believed these decametric emissions were triggered by the fragment as it penetrated Jupiter's magnetic field just prior to impact. This reported event lasted only about 10 minutes on the G-impact only. (I think the Japanese array operates around 22mHz). If verified, this could be the only true decametric effect from the impacts thus far.
6. Don't let me discourage you. I have been conducting a Jupiter watch on 18 and 22mHz nightly from my back yard since June 20. I have heard some L-bursts on 18mHz with a vertical. On 22mHz, I am using a home-brew DDRR loop about 4.5ft in dia. It is not impossible to hear Jupiter on a 15M ham station.
7. Use these guidelines for listening to Jupiter:
 - a. Listen to upper end of 15M (21.4 to 22 if you can) in the evening. Best is when the MUF falls below 21mHz (15M is dead). This will at least shut down a bunch of earth generated signals and noise.
 - b. L-bursts are generated with highest probability during an A-storm or Io-A and Io-B events. See prediction charts.
 - c. There may be a possibility of L-bursts 30-45 min. before a comet fragment impact (as it passes through the magnetic field). Again, use the impact prediction charts.
 - d. If possible, disable the AGC so the bursts are not compressed.
 - e. With a directional 15M beam, point it south or southwest. Jupiter is very bright to the south-southwest early evening. To the far west early evening is Venus. Don't fall for her!

Good luck and hope this information helps.

73, Paul, NA5N

----NATIONAL RADIO ASTRONOMY OBSERVATORY ----- Socorro, New Mexico -----

| VLA - Very Large Array Observatory - Worlds largest radio telescope |
|VLBA - Very Long Baseline Array - even larger |
----- (pharden@zia.aoc.nrao.edu) --- (73 de NA5N) -----

Date: Wed, 20 Jul 94 16:23:45 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!europa.eng.gtefsd.com!
newsxfer.itd.umich.edu!jobone!lynx.unm.edu!Mr-Hyde.aoc.nrao.edu!
pharden@network.ucsd.edu
Subject: Jupiter emission/impact predictions
To: info-hams@ucsd.edu

PREDICTIONS OF JUPITER/SL-9 IMPACTS FAVORABLE FOR DECAMETRIC MONITORING
(Fragments A to Q removed in this revision due to already occurring or
not visable in North America).

FRAGMENT 7b=Q2 IMPACT 20JUL 1932 UTC = 20JUL 1532 EDT

7a=Q1 IMPACT 20JUL 1959 UTC = 20JUL 1559 EDT

Very slim chance of observing ... sun is high in the sky and Jupiter is
just rising on east coast. Jupiter is in a C-storm alignment, and thus
most likely very quiet. Solar interference will render most stations
unsuitable for detecting Jovian emissions.

FRAGMENT 6=R IMPACT 21JUL 0524 UTC = 0124 EDT = 20JUL 2324 MDT

Impact Long.= 036 deg CML=298 ("C" region)

Very good window for observing; impact during a relatively quiet C-storm
alignment and late evening across the country.

FRAGMENT 2=V IMPACT 22JUL 0415 UTC = 0015 EDT = 21JUL 2215 MDT

Impact Long.=145 deg CML=044 (quiet region)

Another good window for observing; impact during a Jovian quiet time
(all magnetic lobes away from the earth) and during evening across the
country. Extreme west coast will be in twilight.

FRAGMENT 1=W IMPACT 22JUL 0756 UTC = 0356 EDT = 0156 MDT

Impact Long.=278 deg CML=180 ("B" region)

Last chance for you night owls! Jupiter will have set in eastern states,
but good in the west. Jupiter begins B-storm, so some L-bursts associated
with that alignment may occur. (Historically quiet past few weeks)

NOTES:

1. Impact times from JPL/Caltech/Cornell calculations
2. Edifications by Dr. Pat Palmer (U. of Ill. Urbana) and NRAO staff.
3. Compiled by Paul Harden. For information only and does not constitute
any guaranteed detection of Jovian emissions by amateur observing
stations. May be freely distributed with credit.

4. Impact times rounded to nearest minute. CML=system III longitude facing the earth; Impact Long. in System III coordinates.
5. Not all bursts heard are Jovian; it is impossible to determine the origin of bursts with a single antenna configuration.

73 and good luck ...
Paul Harden, NA5N

Date: 20 Jul 1994 14:50:07 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!swrinde!news.uh.edu!
uuneo.neosoft.com!blkbox!guillory@network.ucsd.edu
Subject: NASA 25th Moon Landing Special Station
To: info-hams@ucsd.edu

Can anyone please send the me freqs for the JSC station participating in the 25th Anniv. Moon Landing? I had them but mistakenly deleted them.

Today is the last day right?

George Guillory, KC5HBT
guillory@blkbox.com
"To stand in silence when they should be protesting
makes cowards of men." Abraham Lincoln

Date: 20 Jul 1994 13:01:18 GMT
From: lll-winken.llnl.gov!noc.near.net!ctron-news.ctron.com!dur-news.ctron.com!
slama@ames.arpa
Subject: No code tech./CB/not shedding a tear
To: info-hams@ucsd.edu

This would be addressed to those critical of the tech. no-code class and those interested in this thread.

It has been my experience that the CB band is a repository for unregulated communication of a indeterminate nature. Listening to it reminds me of a nursery school with no supervision. The profane language and lack of courtesy is sad. Please bear in mind that I realize that CB traffic is regional and may differ, so I suppose I can not make any generalizations.

However, because of the tech. no code exam, I have been able to use 2 meter. The "type" of people (ie HAM operators) on HAM bands,

exercise a great degree of courtesy and respect (There are exceptions to every rule).

Because of the technical skill and interest, I suspect that most of the troublemakers of CB will be content with turning a dial to a simple channel. I am not convinced that HAM radio will ever become as chaotic and "unappealing" as CB.

My point is that because of the no-code tech license, I have been afforded the opportunity to get a "taste" of this hobby. I like the taste, and I assure you that I will continue to upgrade my license. I wouldn't be so skeptical of the no-code class.

-Fred (N1RVG)

Date: 20 Jul 94 11:54:48 -0500
From: europa.eng.gtefsd.com!ulowell!woods.uml.edu!martinja@uunet.uu.net
Subject: QST on News Stands?
To: info-hams@ucsd.edu

In article <30ja44\$apv@wrdis02.robins.af.mil>, lakeith@robins.af.mil (Larry CONTRACTOR Keith Mr.) writes:

> Has anyone seen QST for sale at a news stand or other magazine outlet?

I've been buying it at the local HRO since my membership expired. (Unemployed for now). But I haven't picked up the July/August issue yet. I noticed the price went up to \$4.99 for that issue. Is this what the rag cost is going to be on the shelf? I only had three bucks in my wallet when I went into HRO to get a QST. Nuts!

de WK1V
-jim-

Date: 20 Jul 1994 13:51:00 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!math.ohio-state.edu!mane.cgrg.ohio-state.edu!aus1.robins.af.mil!wrdis02.robins.af.mil!lakeith@network.ucsd.edu
Subject: QST on News Stands?
To: info-hams@ucsd.edu

Has anyone seen QST for sale at a news stand or other magazine outlet?

I am curious to see if it will sell.. CQ and 73 are usually available at the book store, here. But, I have yet to see QST..

73,

Larry, KQ4BY

Date: 20 Jul 1994 15:06:30 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!
newsserver.jvnc.net!yale.edu!noc.near.net!transfer.stratus.com!
dbirch.sw.stratus.com!user@network.ucsd.edu
Subject: Scanner Cellular Mod
To: info-hams@ucsd.edu

One of my coworkers recently acquired a Radio Shack PRO 2032 scanner, which is apparently able to modified to unlock the cellular frequencies. Since he doesn't have internet access, he asked if I could find out what the modification procedure is (apparently as simple as lifting a diode somewhere, or something like that). Can anyone help out? Email directly to me rather than clutter the newsgroup.

Thanks
Dennis
KD1IY

"Don't be humble. You're not that great." -Golda Meir

Date: 20 Jul 1994 15:55:48 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!
newsxfer.itd.umich.edu!news1.oakland.edu!vela.acs.oakland.edu!
privalko@network.ucsd.edu
Subject: STOP THE INSANITY! (was: FCC Delays)
To: info-hams@ucsd.edu

Am I the only ham in the newsgroup that is getting tired of listening to the whining about how long it takes to get a license back from the FCC?

I can certainly appreciate the complaints, as I waited for SIX MONTHS to get my novice license in 1975-6 because of the CB Boom.

What just popped my cork was a message from a 2x2 Advanced class ham complaining about not having his "Extra" license in his hands yet... Hey, do you guys know that in the dark-ages of ham radio, you waited WEEKS to even USE your new privlgedges? That was before we had instant upgrades. Heck, back then, you had to sit and take the test in front of some steelly-eyed, cold-blooded, FCC clerk! Not your friendly, local

VE!

I would love to see "instant licences" and my own experiences pushed me to petition the FCC and my congressman to initiate the "instant upgrade" system that we have today. But this complaining is getting really OLD. I mean, you guys waited 20 or 30 years to even get interested in ham radio, it's not going away (yet). The FCC doesn't love you like *I* and most other hams do, you complain loud enough and the FCC will do something to fix the problem, that's for sure... and when did the Feds do anything right for you recently?

73 =paul= wb8zjl

flames may be directed to dev/null

Date: 20 Jul 1994 21:08:13 GMT
From: EU.net!sun4nl!hacktic!zap@uunet.uu.net
Subject: Tel.nbr. SSB-electronics Germany ??
To: info-hams@ucsd.edu

Help, I'm looking for the telephone-number of SSB-electronics in Germany. I saw an ad of them recently, and want to order a piece of equipment, which isn't available in PA-land.

Tschuess,

-martin-

--

Brazil	Name : Martin Heffels
Worldchampion Soccer 1994 !!!	e-mail : zap@hacktic.nl
Thanks, Roberto Baggio :->>	air mail: peleec@pi8mst.nld.eu

Date: Wed, 20 Jul 1994 09:21:32
From: ihnp4.ucsd.edu!swrinde!elroy.jpl.nasa.gov!lll-winken.llnl.gov!
xanth.cs.odu.edu!saimiri.primate.wisc.edu!news.doit.wisc.edu!
F181-152.net.wisc.edu!bmicales@network.ucsd.edu
To: info-hams@ucsd.edu

References <30bqcb\$lot@nntp.club.cc.cmu.edu>, <30hec6\$inu@wizard.uark.edu>,
<30i5cl\$hp5@edwin.bga.com>wis
Subject : Re: *finally it arrived* (but why no plus?)

In article <30i5cl\$hp5@edwin.bga.com> maultsby@bga.com (John Maultsby) writes:

>From: maultsby@bga.com (John Maultsby)
>Subject: Re: *finally it arrived* (but why no plus?)
>Date: 19 Jul 1994 22:24:05 -0500

>>Another curiosity: no specific exemption is made in the rules regarding
>>the expiration of CSCEs for Tech+ hams - those too should expire in 365
>>days - but they don't.

>Actually, I think it specifically says on the CSCE that they never expire
>if they are the 5 wpm credit for a Technician. However, if they are
>credit for anything else, THEN they expire in 365 days...

>Here's a another curiosity: I was reading through the rule book (March
>'94 printing by the W5YI group) today, and noticed that it lists the
>license classes as Novice, Tech, General, Advanced, and Amateur Extra.
>ie - technically, there are only five license classes. I've gotten into
>debates with friends about whether there are five or six license
>classes. Since they're now going to actually print "Tech Plus" on the
>licenses are they modifying the rules to call it six license classes, or
>will it still be five classes with special circumstances for one of
>them? Just curious....

>73 de KE4CLW,
>John in Austin, TX

John,

As far as I know there will only be five classes of licensing.
However, I do not have a direct pipeline to the FCC so this may be wrong :).

The one thing that I wish to clear up is that the Tech and the Tech
PLUS are two different (not better or worse - just different) animals. This
is especially important for the Tech PLUS that recieved their licence BEFORE
March 21, 1987. No CSCE is needed (if I read the rules correctly) since
these Techs will be given credit for the General Written Exam (element 3(
B)). All we need (yes, I am a pre-1987 Tech) is to pass the 13 wpm code in
order to get the General "ticket".

Ok, enough said...waiting for any replies

Bruce WA2DEUstanding by

End of Info-Hams Digest V94 #820
